

**ABSTRACT OF THE DISCLOSURE**

The present invention sets out to provide X-ray fluorescence analysis apparatus having an easily detached protective sheath having a structure where conduction is provided between a core and a shield when the high-voltage connector is open. A pipe-shaped sheath having threading corresponding to a fixing screw connecting to a shield of the high-voltage connector is provided, and a conductor touching with the core is provided at the other end of the sheath. When the sheath is then fitted to the high-voltage connector, the core of the high-voltage connector and the shield conduct.